

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : THE COMMISSIONER IS AUTHORIZED
Toshiyuki KOHARA et al. : TO CHARGE ANY DEFICIENCY IN THE
Serial No. NEW : FEES FOR THIS PAPER TO DEPOSIT
Filed August 1, 2003 : ACCOUNT NO. 23-0975
: **Attn: APPLICATION BRANCH**
: Attorney Docket No. 2003_1088A

DIHYDROPYRAZOLOPYRIDINE COMPOUNDS
AND PHARMACEUTICAL USE THEREOF
(Rule 1.53(b) Continuation-in-Part
of PCT/JP02/00829, Filed February 1, 2002)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of ☒ the references listed on attached form PTO-1449 and/or ☐ the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior parent application Serial No. .

1a. ☒ This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, **or**

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

- 1b. ☐ This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

(1) ☐ the certification of paragraph 2 below is provided, **or**

(2) ☐ the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 1c. ☐ This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

2. It is hereby certified

a. ☐ that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or

b. ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.


3. ☐ Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

4. For each non-English language reference listed on the attached form PTO-1449, reference is made to:

- a. ☐ a full or partial English language translation submitted herewith,
 - b. ☒ a foreign patent office search report (in the English language) submitted herewith,
 - c. ☐ the concise explanation contained in the specification of the present application at page ,
 - d. ☐ the concise explanation set forth in the attached English language abstract,
 - e. ☐ the concise explanation set forth below or on a separate sheet attached to the reference:
5. ☐ A foreign patent office search report citing one or more of the references is enclosed.

Respectfully submitted,

Toshiyuki KOHARA et al.

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August 1, 2003

Sheet 2 of 2							
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: August 1, 2003				ATTY DOCKET NO. 2003_1088A		SERIAL NO. NEW	
APPLICANT Toshiyuki KOHARA et al.				FILING DATE August 1, 2003		GROUP	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AN	Jairo Quiroga et al., entitled " <u>Synthesis of 5-cyano-4, dihydropyrazolo'3,4-bl pyridin-4-ones.....</u> ", DATABASE CA 'Online! Chemical Abstracts Service, Columbus, Ohio, US.					
	AO	Ikuo Adachi et al., entitled " <u>Studies on dihydropyridines. Synthesis of 4, 7-dihydropyrazolo'3,4-blpridines with vasodilating and antihypertensive activities</u> ", Chemical and Pharmaceutical Bulletin., vol. 35, no. 8, pages 3235-3252.					
	AP	Reinhard Troschuetz, entitled " <u>Synthesis of pyrido'2,3-dlpyrimidines with a trimethoprim partial structure</u> ", DATABASE CA 'Online! Chemical Abstracts Service, Columbus, Ohio, US.					
	AQ	F. Attaby, entitled " <u>Reactions with cyanothioacetamide derivatives: synthesis of several new pyridine and annulated pyridine derivatives</u> ", DATABASE CAPLUS 'Online! Chemical Abstracts Service, Columbus, Ohio, US.					
	AR	Dyachenko et al., entitled " <u>Synthesis and properties of N-methylmorpholinium-6-amino-3,5-dicyano-1,4-dihydropyridine-4-spirocyclopentane-2-thiolate</u> ", DATABASE CAPLUS 'Online! Chemical Abstracts Service, Columbus, Ohio, US.					
	AS	Jairo Quiroga et al., entitled " <u>Synthesis and structural analysis of 5-cyanodihydropyrazolo'3,4- blpyridines</u> ", Journal of Heterocyclic Chemistry (2001).					
	AT	J. Quiroga et al., entitled " <u>Regioselective synthesis of 4,7,8,9-tetrahydro-2H-pyrazolo'3,4-blquinolin-5(6H)-ones. Mechanism and structural analysis</u> ". Tetrahedron, Elsevier Science Publishers, Amsterdam, NL, vol. 57, no. 32, August 6, 2001.					
EXAMINER				DATE CONSIDERED			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

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NEWAPPLICANT
Toshiyuki KOHARA et al.FILING DATE
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GROUP

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,790,576	2/1974	H. De Wald			
	AB						
	AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AD	92 03137	3/1992	WO				
	AE	0 107 619	5/1984	EP				
	AE	0 157 260	10/1985	EP				
	AG	2 146 326	4/1985	GB				
	AH	0 327 500	8/1989	EP				
	AI	0 114 273	8/1984	EP				
	AJ	0 355 234	2/1990	EP				
	AK	99 65897	12/1999	WO				
	AL	01 66544	9/2001	WO				
	AM	01 81345	11/2001	WO				

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AN	
	AO	
	AP	

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DATE CONSIDERED

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